

Fig. 2

		-					context server table	coh
	context server name		version	installation date	filename	ne	request handler	
401	gps		2/	2/10/2000	gps.exe	(ref	(reference)	
4027	ips	1	2/	2/21/2000	ips.exe	(ref	(reference)	
403 1	location region analysis	nalysis 1	2/	2/10/2000	l r a.exe	(ref	(reference)	
1		1141	7/1J	ال FIG 4	-413	4/4	214.7	٠.
	·							
								200
						а	attribute instance table	
	attribute name	context server	value	uncertainty	timestamp	units	number of	
		name					context clients	
						:	consuming	
1 12	user.location	sds	47° 38.73' N,	.60°.09′	13:11:04.023	degrees/minutes	2	
5			122° 18.43' W		2/22/2000			
i	user.location	ips	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2	
2067			122° 18.424' W		2/22/2000			
	user elevation	sdi	22	5.	13:11:01.118	meters		
\ \ \ \					2/22/2000			

0

none

none

none

none

location\_region\_ analysis

user in region

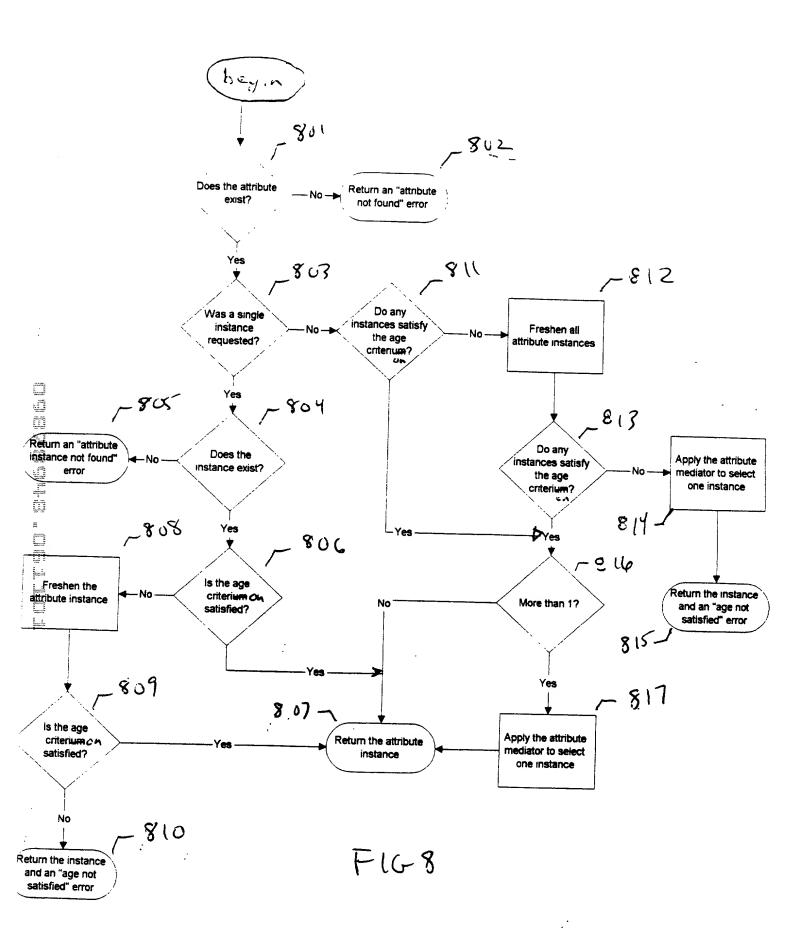
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L 5/4 FIG 5

	Context client table	1600
context client name	message handler	
· -	(reference)	· ·
しゅう distance from home	(reference)	
col region analysis	(reference)	4
	7	
	FIG 6	

	attribute name	Townson treatment			•	attr	attribute instance table	_
	מננווסמוכ וומוווכ	Collicat Server	value	uncertainty	timestamp	units	number of	
		וומוווכ					context clients	
							consuming	
7	user location	Sps	47° 38.73' N,	,60°,0	13:11:04.023	degrees/minutes	2	
5			122° 18.43' W	-	2/22/2000	<b>)</b>	<u> </u>	
7,000	user location	sdi	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2	
70/			122° 18.424' W		2/22/2000		l	
Z Z	user elevation	ips	22	5.	13:11:01.118	meters		
^					2/22/2000			
4	user.in_region	location_region_	none	none	none	none		
10/		analysis						
	1127	171	ノン	217	   			
				FIG 7	つく	9)/	(1) 1 9	

C



006	v		<u> </u>		T	1	
	attribute instance table number of	context clients	2	2	-		(18)
	units		degrees/minutes	degrees/minutes	meters	none	916
	timestamp	,	13:11:04.023 2/22/2000	13:11:01.118 2/22/2000	13:11:06.565 2/22/2000	none	5157 5
	uncertainty		0°.09′	0°.021'	٥.	none	3 FIG 9
	value		47° 38.73' N, 122° 18.43' W	47° 38.745' N, 122° 18.424' W	22.25	none	رم
	context server	name	sd8	sdi	ips	region analysis	765
	attribute name		user.location	user location	ușer elevation	374 — user in region	٢٩(
			701	7206	903 /	7 500	2

	4101	م ال الحالي الم	10 - 1014	2 / 1013 FIG 10	L1017 11017	<u> </u>	
	-	TRUE	none	user in region	region analysis	oo in region true	
	logical operator	comparison value	second logical parameter	nrst logical parameter	context client name	condition name	
	condition table						
1000	1						

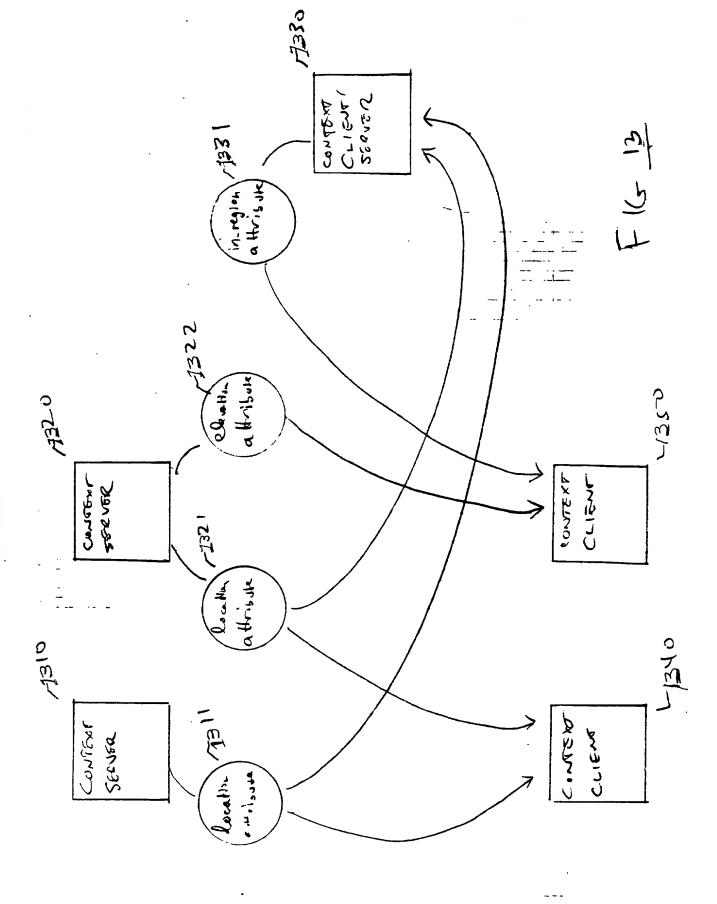
•

									0011
				-			conditic	condition monitor table	
	condition	context client	condition	behavior	frequency	condition last	condition last trigger handler	stopped	
	monitor name	name	name			evaluated	reterence		
•	region bounda	region analysi	region hounda region analysi in region true TRUE or	TRUE or	30	11	(reference)	ou	
<u> </u>	rv crossed		 	FALSE		2/22/2000			
	11 -1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L1112 L1113	13 FIGYI			/=:c /=>	مد آ آ	

condition onitor name	context client	condition	behavior	frequency	condition last evaluated		stopped	
bounda	region_analysi	in_region_true	TRUE or	30	13:11:59.101		yes	
100,	condition monitor name region bounda	Jition context client or name name bounda region analysi	Jition context client condition  or name name  bounda region_analysi in_region_true	ne name name name TR	ne name name region_analysi in_region_true FALSE	ne name name TRUE or 30	nenameregion_analysiregion_trueTRUE or3013:11:59:101(referentered)FAI SF2/22/2000	nenameregion_analysiregion_trueTRUE or3013:11:59:101(referentered)FAI SF2/22/2000

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attribute request table

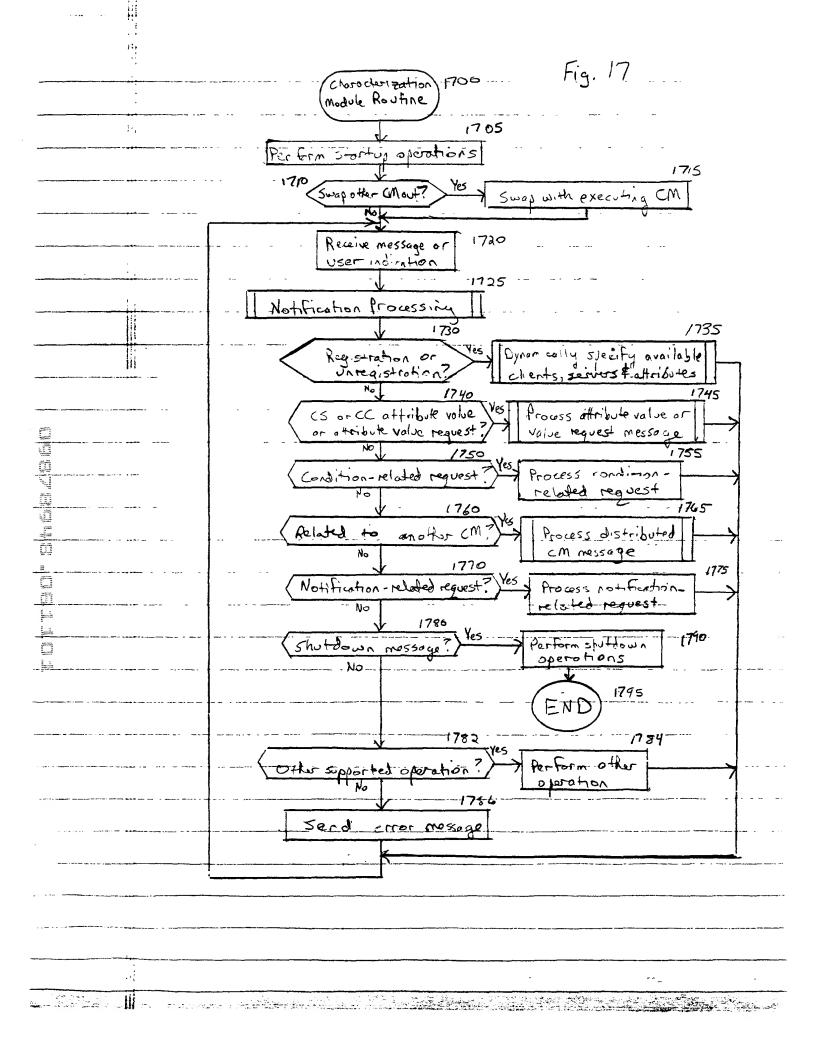
attribute name	context client name
user.location	distance_from_home
user.in_region	location_map
user.location [gps]	location_region_analysis
user.elevation	location_map
(	7
- 1411	Figure 14 /4/2

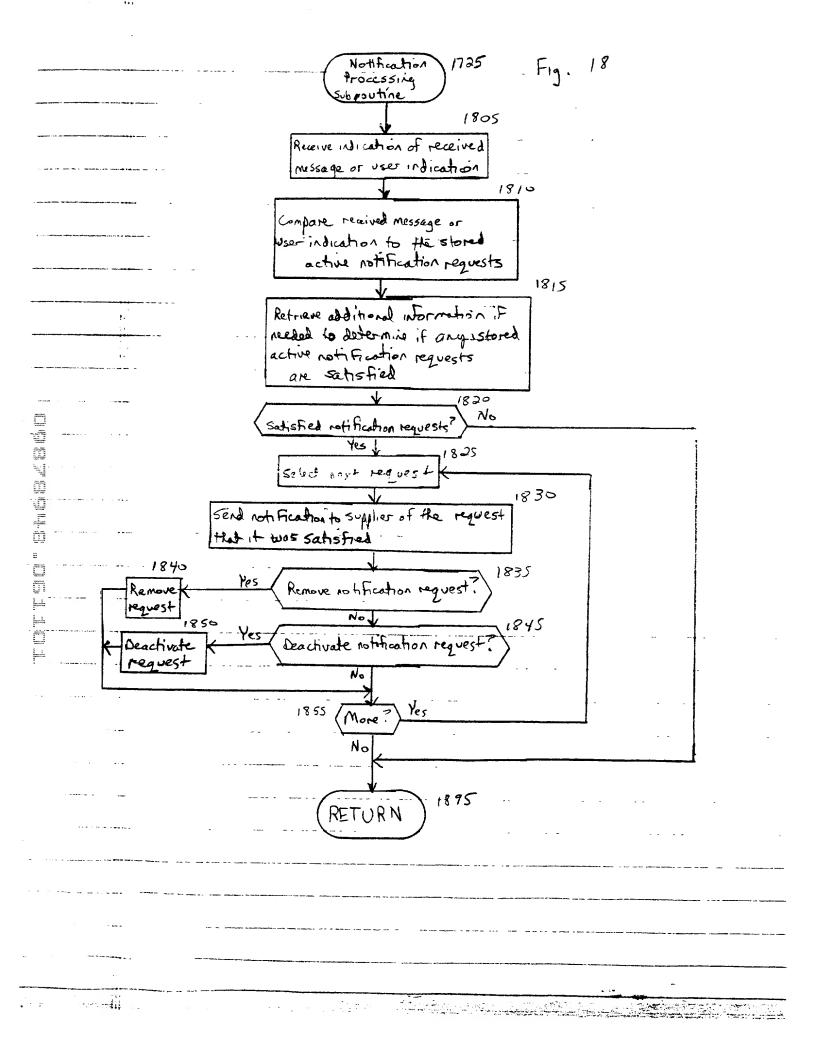
User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	Speed ' ' '
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive availability	Storage.
Tactile availability	Total_capacity
Manual_availability	Used
Visual availability	Connectivity.
Oral_availability	Connection_status
Auditory availability	
•	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power_source
Anger	Power_level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number_close
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place_name	Wind direction
Latitude	Absolute humidity
Longitude	High_forecast_temperature
Altitude	Low forecast temperature
Room	People present
Floor	Ambient noise level
Building	Ambient light level
Address	Days. <pre>previous or future&gt;.</pre>
Street	High_temperature
City	Low temperature
County	Precipitation type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting to be sent
Blood pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	
Platform.	In_use On/off
UI.	
Oral_input_device_availability	Notification_mechanism
Manual_input_device_availability	Call_incoming
	Caller_ID
Tactile_output_device_availability Visual output device availability	Sound_recorder.
Auditory output device availability	Available Recording

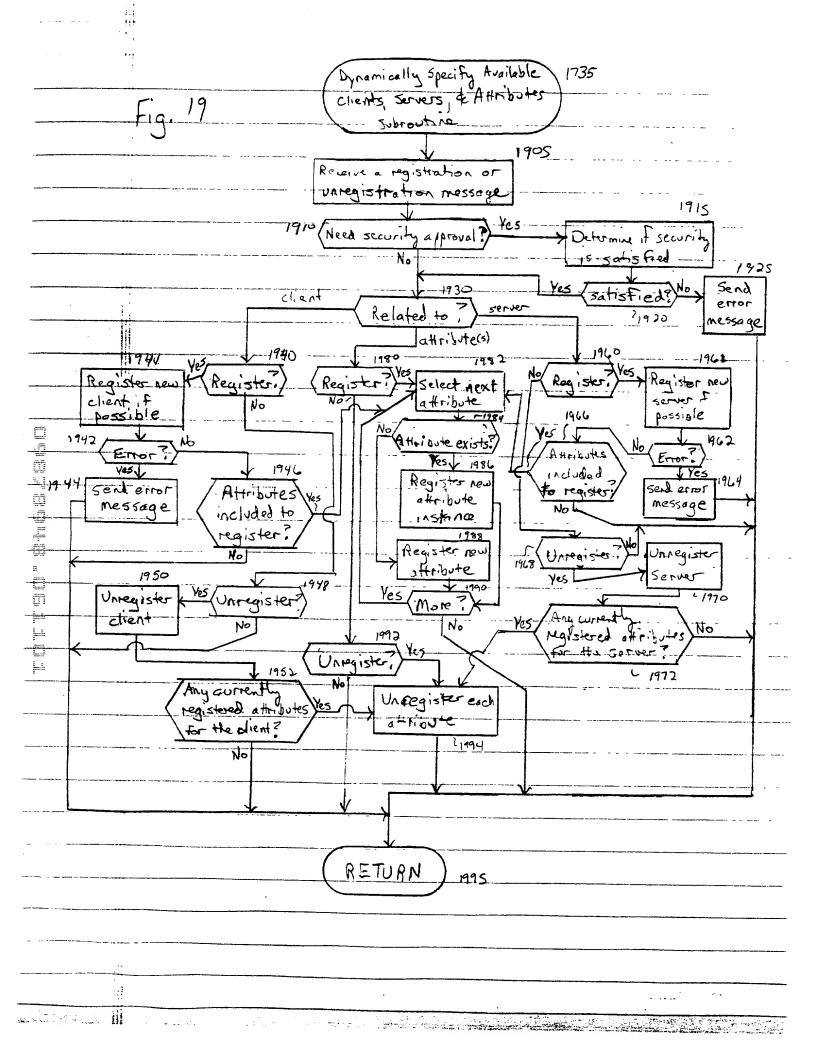
- 1) User Setting
  - a) Mental Context
    - i) Meaning
    - ii) Cognition
      - (1) Divided User Attention
      - (2) Task Switching
      - (3) Background Awareness
    - iii) Solitude
    - iv) Privacy
      - (1) Desired Privacy
      - (2) Perceived Privacy
    - v) Social Context
    - vi) Affect
  - b) Physical Situation
    - i) Body
      - (1) Biometrics
      - (2) Posture
      - (3) Motion
      - (4) Physical Encumberment
        - (a) Senses
          - (i) Eyes
          - (ii) Ears
          - (iii) Tactile
          - (iv) Hands
          - (v) Nose
          - (1) 11030
          - (vi) Tongue
        - (b) Workload demands/effects
        - (c) Interaction with computer devices
        - (d) Interaction with people
        - (e) Physical Health
    - ii) Environment
      - (1) Time/Space
      - (2) Objects
      - (3) Persons
        - (a) Audience/Privacy Availability
          - (i) Scope of Disclosure
          - (ii) Hardware affinity for privacy
          - (iii) Privacy Indicator for User
          - (iv) Privacy Indicator for Public
          - (v) Watching Indicator
          - (vi) Being Observed Indicator
      - (4) Ambient Interference
        - (a) Visual
        - (b) Audio
        - (c) Tactile

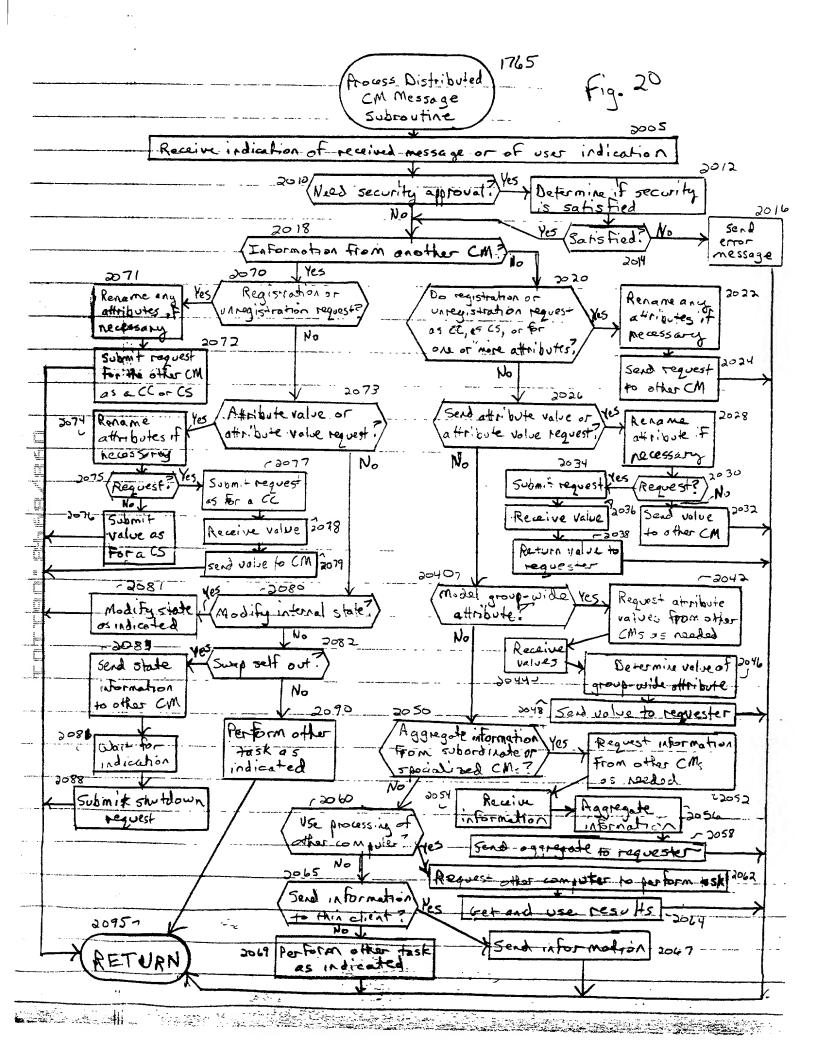
- 2) Computer
  - a) Power
  - b) Configuration
    - i) User Input Systems
      - (1) Hand/Haptic
        - (a) Keyboard/Keystrokes
      - (2) Voice/Audio
      - (3) Eye Tracking
      - (4) Cursors
        - (a) Axis
        - (b) Resolution
          - (i) Selection
          - (ii) Invocation
        - (c) Accelerators
    - ii) Output Systems
      - (1) Visual
        - (a) Resolution
      - (2) Audio
        - (a) Public/Private
      - (3) Haptic
    - iii) External Resources
      - (1) I/O devices
      - (2) Connectivity
  - c) Data
    - i) Quantity/State
    - ii) Urgency/Importance
      - (1) Use of Prominence
    - iii) Modality
    - iv) Sensitivity/Purpose
      - (1) Privacy Issues
      - (2) Use of Association
      - (3) Use of Safety
    - v) Source/Ownership
      - (1) Types
        - (a) User generated
        - (b) Other computers or people
        - (c) Sensor
        - (d) PC State
      - (2) Use of Association

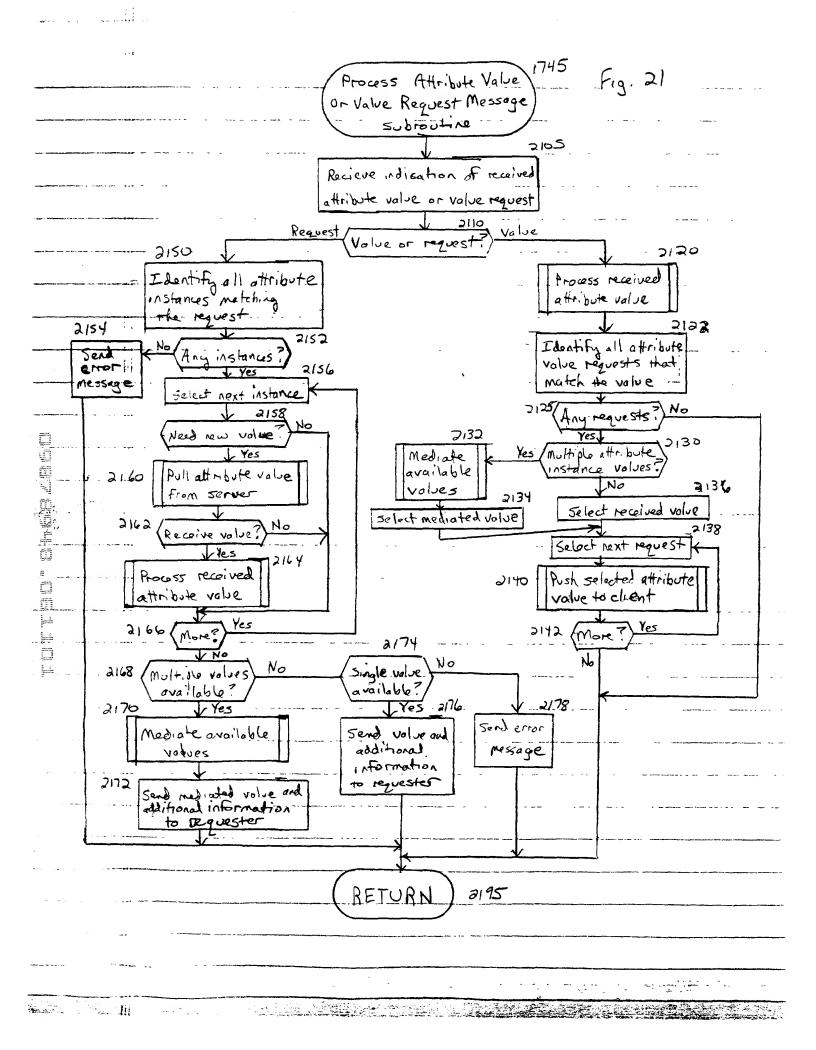
Fig. 16

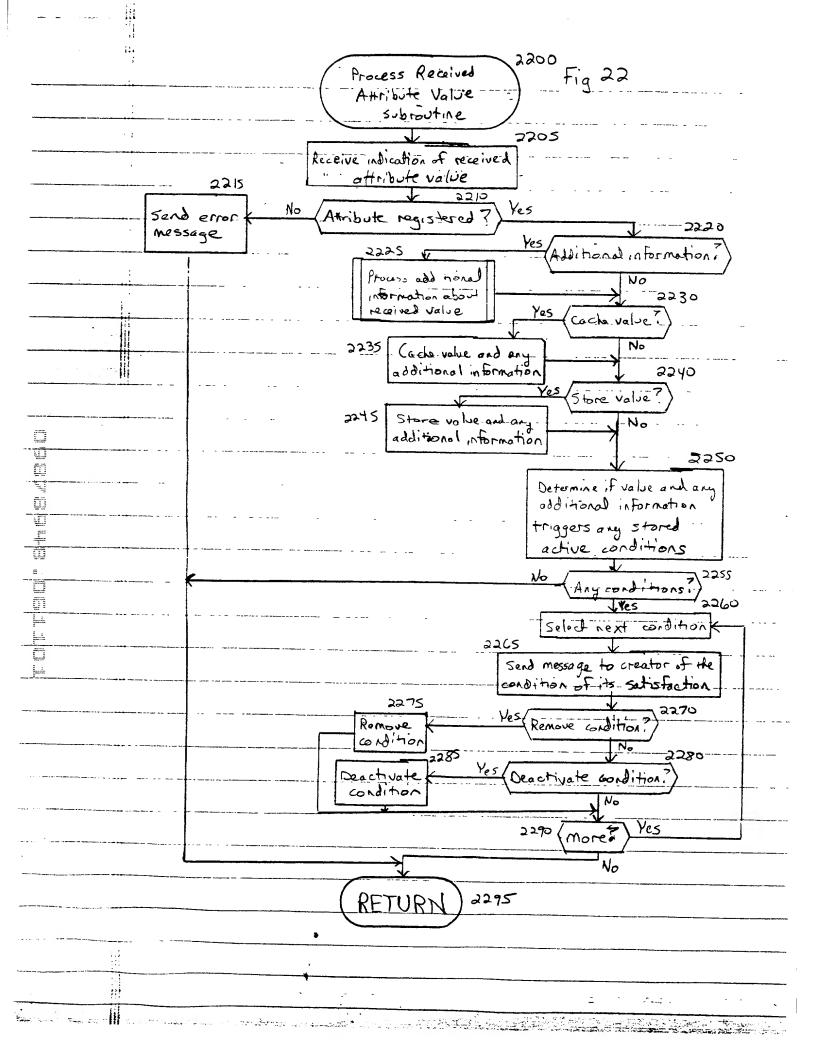


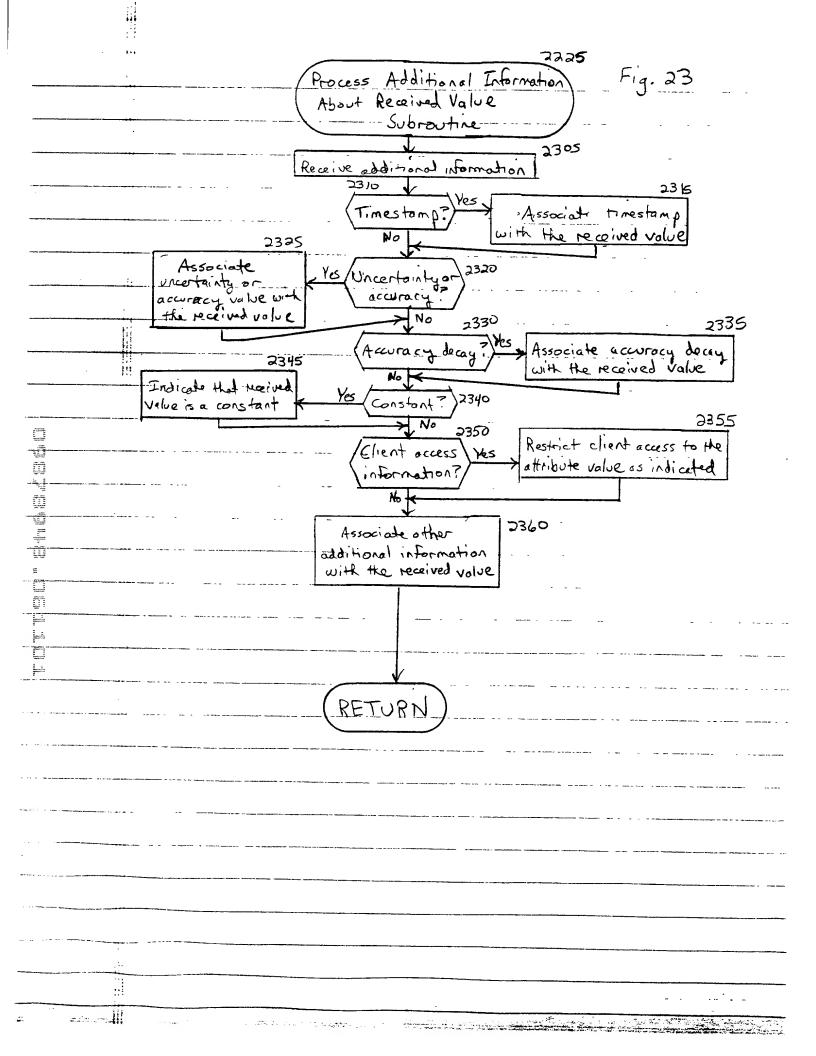


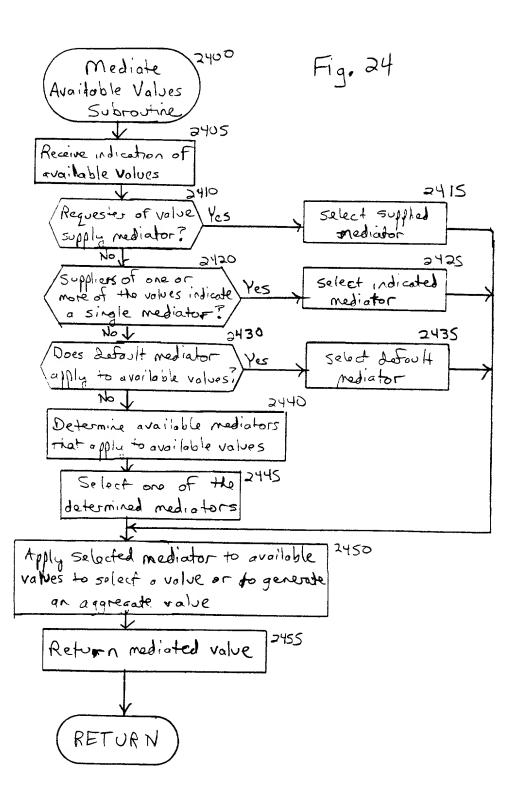












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